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Dear Sir,

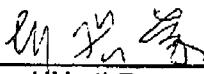
**Utility Patent Registration In USA****Invention: A SMALL FOUR-STROKE GASOLINE ENGINE WITH OIL MIST LUBRICATION****Registration No: US 7,243,632****Registration Date: 17 July 2007****Registrant: HU, Ji-Rong****Docket No.: 10034**

I refer to the above registration and my letter dated 14 December 2007 returning the original registration certificate to you. A copy of the letter is attached herewith for your ease of reference. To date, I have not received the amended registration certificate from your Office.

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PTO/SB/44 (09-07)

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CERTIFICATE OF CORRECTIONPage 1 of 1

PATENT NO. : US 7,243,632

APPLICATION NO. : 10/569,027

ISSUE DATE : 17 July 2007

INVENTOR(S) : HU, Ji-Rong

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

The correct name of the Registrant should be "Ji-Rong HU" instead of "Ji-Rong No HU".

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This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Dear Sir,

**Utility Patent Registration In USA**

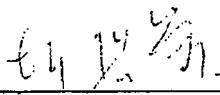
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Thank you very much for your kind attention.

Yours faithfully,

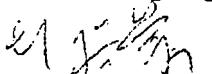
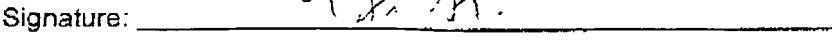
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US007243632B2

(12) **United States Patent**  
**Hu**

(10) Patent No.: **US 7,243,632 B2**  
(45) Date of Patent: **Jul. 17, 2007**

(54) **SMALL FOUR-STROKE GASOLINE ENGINE WITH OIL MIST LUBRICATION**

→ (76) Inventor: Ji-Rong No Hu, Office of the Chief Engineer, Xingyue Group, Gushan Industrial Area, Yongkang City, Zhejiang Province (CN) 321307

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **10/569,027**

(22) PCT Filed: **Aug. 27, 2004**

(86) PCT No.: **PCT/CN2004/000998**

§ 371 (c)(1),  
(2), (4) Date: **Feb. 17, 2006**

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PCT Pub. Date: **Mar. 24, 2005**

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(30) **Foreign Application Priority Data**

Aug. 29, 2003 (CN) ..... 03 2 10165

(51) Int. CL  
*F01M 1/00* (2006.01)  
*F01M 1/04* (2006.01)

(52) U.S. CL ..... 123/196 R; 184/6.5; 184/6.26;  
184/11.1; 184/104.3

(58) Field of Classification Search ..... 123/196 R;  
184/6.5, 6.8, 6.9, 6.26, 11.1, 104.3

See application file for complete search history.

(56)

**References Cited**

**U.S. PATENT DOCUMENTS**

6,394,061 B2 \* 5/2002 Ryn et al. ..... 123/196 R

\* cited by examiner

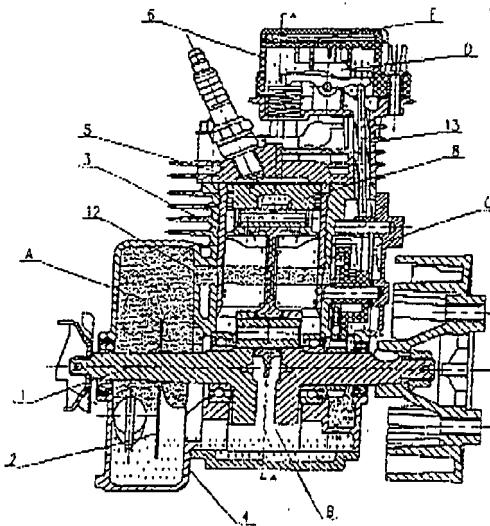
Primary Examiner—Noah P. Kamen

(57)

**ABSTRACT**

The present invention relates to a small four-stroke gasoline engine with oil mist lubrication. The lubrication oil way of the engine includes a crankshaft chamber B, a camshaft chamber C, an upper rocker arm chamber D and a condensation chamber E. The camshaft chamber C communicates with the upper rocker arm chamber D via a tappet cavity 13. The upper rocker arm chamber D communicates with the condensation chamber E. An oil mist chamber A is surrounded by an upper case body 3 and a lower case body 4 at the side of the crankshaft chamber B, the bottom of the oil mist chamber A communicates with the crankshaft chamber B. An oilsplash impeller 2 is fixed on a crankshaft, which extends into the oil mist chamber A. An oil way 12 is provided on the upper case body 3 between the oil mist chamber A and the camshaft chamber C. An oil return way 15 is provided on a cylinder head assembly 5. An oil return way 14 is provided on the upper case body 3. An upper interface of the oil return way 15 communicates with the upper rocker arm chamber D, a lower interface of the oil return way 15 communicates with the oil return way 14, and a lower interface of the oil return way 14 communicates with the crankshaft chamber B. The conventional lubricating mode is changed by the structure of the invention, which makes use of the pressure change during the reciprocating movement of a piston assembly 8 to attain the circulation of oil. The structure is simple, reliable in operation and has small consumption in power.

3 Claims, 3 Drawing Sheets



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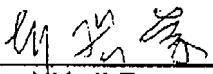
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